## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JONG-SANG OH et al.

Serial No.:

to be assigned

Examiner:

to be assigned

Filed:

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20 February 2004

Art Unit:

to be assigned

For:

DISTRIBUTED ROUTER WITH PING-PONG PREVENTING FUNCTION AND

PING-PONG PREVENTING METHOD USING THE SAME

## **INFORMATION DISCLOSURE STATEMENT**

Mail Stop: Patent Application

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites and provides copies of the following art references:

- 1. U.S. Patent No. 6,680,933 to Cheesman *et al.*, entitled *TELECOMMUNICATIONS*SWITCHES AND METHODS FOR THEIR OPERATION, issued on 20 January 2004;
- 2. U.S. Patent No. 6,674,756 B1 to Rao *et al.*, entitled *MULTI-SERVICE NETWORK*SWITCH WITH MULTIPLE VIRTUAL ROUTERS, issued on 6 January 2004;

- 3. U.S. Patent No. 6,594,704 B1 to Birenback et al., entitled METHOD OF

  MANAGING AND USING MULTIPLE VIRTUAL PRIVATE NETWORKS IN A

  ROUTER WITH A SINGLE ROUTING TABLE, issued on 15 July 2003;
- 4. U.S. Patent No. 6,683,874 B1 to Nagami *et al.*, entitled *ROUTER DEVICE AND LABEL SWITCHED PATH CONTROL METHOD USING UPSTREAM INITIATED AGGREGATION*, issued on 27 January 2004;
- 5. U.S. Patent No. 6,680,952 B1 to Berg et al., entitled METHOD AND APPARATUS

  FOR BACKHAUL OF TELECOMMUNICATIONS SIGNALING PROTOCOLS

  OVER PACKET-SWITCHING NETWORKS, issued on 20 January 2004;
- 6. U.S. Patent No. 6,618,782 B1 to Gulick *et al.*, entitled *COMPUTER INTERCONNECTION BUS LINK LAYER*, issued on 9 September 2003;
- 7. U.S. Patent No. 6,681,230 B1 to Blott et al., entitled REAL-TIME EVENT PROCESSING SYSTEM WITH SERVICE AUTHORING ENVIRONMENT, issued on 20 January 2004;
- 8. U.S. Patent No. 6,651,122 B2 to Porterfield, entitled *METHOD OF DETECTING A*SOURCE STROBE EVENT USING CHANGE DETECTION, issued on 18 November

9. U.S. Patent No. 6,625,689 to Narad *et al.*, entitled *MULTIPLE CONSUMER-MULTIPLE PRODUCER RINGS* issued on 23 September 2003.

## **DISCUSSION**

Cheesman *et al.* '933 contemplates a telecommunication switch that includes a switching fabric, ingress processor, egress processor and a structure of queues and schedulers providing class-based scheduling, flow-based scheduling and a combination thereof.

Rao et al. '756 provides a physical network switch that is partitioned into a plurality of virtual routers with each router allocated to a set of resources and routing tables, and partitioned into multiple virtual private networks.

Birenback *et al.* '704 discusses a technique for maintaining multiple routing tables within a global table of a network router with a route table generator maintaining the global table, and a forwarding engine performing table lookups in one of the multiple routing tables of the global table using a key obtained by combining a virtual private network identification and a packet destination address.

Nagami *et al.* '874 provides a router with a label switched half using an upstream initiated procedure in which router identification information about the target router to be set as an egress router is stored in an egress router list at the time of setting up a label switched path from the router as an ingress router.

Berg *et al.* '952 contemplates a scalable telecommunications network enabling backhaul signaling of data to a media gateway controller, to support multiple protocols and signaling channels.

Gulick *et al.* '782 provides a communications system with a high speed communication link having multiple pipes operating on the communication link, with each pipe identified by a pipe identifier uniquely identifying both the source end and the target end of the corresponding pipe.

Blott *et al.* '230 discloses a service authoring environment that may be used to generate services executed in a real-time analysis engine using one or more data structures: a base table supporting insert, update, delete, and select operators, a chronicle which supports insert and select operators corresponding to generation of a record on an output stream, and a view which supports a select operator with contents drive from one or more other tables.

Porterfield '122 contemplates detection of a source strobed event in a hub base computer system that has a central hub communicating with a plurality of satellite devices over respective link buses, albeit with a target device using internal logic clocked by a system clock rather than the source strobe, in order to continuously sample the state of the receiving circuitry in order to determine whether the state of the receiving circuitry as deviated from a known state.

Narad *et al.* '689 contemplates a general purpose programmable platform for accelerating network infrastructure applications in switches and routers by dividing the steps of a packet processing into a multiplicity of pipelined stages and providing custom, specialized classification engines that are micro-programmed processor optimized for the various functions common to predicate analysis and table searches.

No fee is incurred by this Statement.

Respectfully submitted,

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Folio: P57023

Date: 20 February 2004

I.D.: REB/wc

INFORMATION DISCLOSURE STATEMENT
PTO-1449 (PAGE 1 OF 1)

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SERIAL NUMBER to be assigned	DOCKET NO. P57023			
APPLICANT JONG-SAN	NG OH et al.			
FILING DATE February 20, 2004	GROUP to be assigned			

EXAMI	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	DATE
	6,680,933	01/04	Cheesman et al.				
	6,674,756 B1	01/04	Rao et al.			_	
	6,594,704 B1	07/03	Birenback et al.				
	6,683,874 B1	01/04	Nagami et al.				
	6,680,952	01/04	Berg et al.				
	6,618,782 B1	09/03	Gulick et al.				
	6,681,230 B1	01/04	Blott et al.				
	6,651,122 B2	11/03	Porterfield				
	6,625,689	09/03	Narad et al.				
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
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